

Appendix table 3-13

S&E workers, by race/ethnicity and occupation: 2008

(Percent)

Occupation	Total	Asian		American Indian/Alaska Native		Black		Hispanic		White		Native Hawaiian/Other Pacific Islander		Two or more races	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Science and engineering occupations	4,874,000	824,000	16.9	17,000	0.3	191,000	3.9	239,000	4.9	3,502,000	71.8	20,000	0.4	81,000	1.7
Computer and mathematical scientists	1,970,000	423,000	21.5	5,000	0.3	97,000	4.9	82,000	4.2	1,323,000	67.2	8,000	0.4	31,000	1.6
Computer and information scientists	1,778,000	390,000	22.0	4,000	0.2	85,000	4.8	74,000	4.2	1,186,000	66.7	8,000	0.5	29,000	1.7
Computer and information scientists, research	45,000	9,000	19.5	S	S	3,000	6.0	1,000	2.6	31,000	69.4	S	S	1,000	2.2
Computer support specialists	193,000	27,000	14.1	S	S	19,000	9.6	11,000	5.9	129,000	67.0	1,000	0.4	5,000	2.7
Computer system analysts	434,000	89,000	20.6	1,000	0.2	24,000	5.6	18,000	4.2	294,000	67.9	1,000	0.2	6,000	1.3
Database administrators	100,000	27,000	26.9	S	S	5,000	5.0	4,000	4.2	59,000	59.0	S	S	2,000	2.2
Network and computer systems administrators	178,000	26,000	14.4	S	S	9,000	4.9	10,000	5.5	129,000	72.5	1,000	0.8	3,000	1.6
Network systems and data communications analysts	88,000	16,000	18.1	S	S	6,000	6.6	4,000	5.0	60,000	67.6	S	S	2,000	2.0
Other computer and information science occupations	145,000	18,000	12.2	S	S	8,000	5.5	5,000	3.6	112,000	76.8	S	S	2,000	1.5
Computer engineers—software	594,000	179,000	30.1	1,000	0.1	12,000	2.0	20,000	3.3	371,000	62.5	2,000	0.4	9,000	1.4
Mathematical scientists	107,000	22,000	20.6	S	S	7,000	6.1	4,000	3.6	73,000	68.2	S	S	1,000	0.5
Mathematicians	6,000	1,000	9.3	S	S	<500	1.6	<500	2.1	5,000	83.5	S	S	S	S
Operations research analysts, including modeling	57,000	11,000	18.8	S	S	3,000	6.1	2,000	4.1	40,000	70.5	S	S	S	S
Statisticians	39,000	10,000	26.1	S	S	3,000	7.6	1,000	3.6	23,000	59.9	S	S	<500	0.1
Other mathematical scientists	6,000	1,000	13.8	S	S	S	S	S	S	5,000	85.2	S	S	S	S
Postsecondary teachers—computer and math sciences	84,000	11,000	12.6	<500	0.4	5,000	5.6	4,000	5.1	64,000	75.6	S	S	1,000	0.6
Postsecondary teachers—computer science	22,000	3,000	13.5	S	S	1,000	6.8	1,000	6.2	16,000	72.3	S	S	<500	1.2
Postsecondary teachers—mathematics and statistics	62,000	8,000	12.3	S	S	3,000	5.2	3,000	4.7	48,000	76.8	S	S	<500	0.4
Biological, agricultural, and other life scientists	498,000	80,000	16.0	4,000	0.7	14,000	2.8	28,000	5.6	364,000	73.1	<500	0.1	8,000	1.7
Agricultural and food scientists	62,000	5,000	7.4	S	S	1,000	1.8	4,000	6.9	51,000	82.2	S	S	1,000	1.5
Biological and medical scientists	331,000	67,000	20.3	2,000	0.7	9,000	2.8	19,000	5.8	227,000	68.4	<500	0.1	6,000	1.8
Biochemists and biophysicists	45,000	13,000	28.2	S	S	<500	0.6	2,000	5.0	29,000	64.7	S	S	<500	1.1
Biological scientists (e.g., botanists, ecologists, zoologists)	128,000	15,000	11.5	2,000	1.3	3,000	2.4	9,000	6.7	97,000	75.7	<500	0.1	3,000	2.4
Medical scientists (excluding practitioners)	124,000	34,000	27.2	<500	0.1	5,000	3.8	6,000	4.6	78,000	62.6	<500	0.0	2,000	1.6
Other biological, agricultural or life scientists	34,000	6,000	18.4	S	S	1,000	4.1	3,000	7.6	23,000	67.0	S	S	1,000	1.5
Forestry and conservation scientists	35,000	1,000	3.1	S	S	1,000	2.6	1,000	1.8	31,000	90.5	S	S	<500	1.1
Postsecondary teachers—life and related sciences	70,000	7,000	9.4	S	S	3,000	3.7	4,000	5.3	55,000	78.6	S	S	1,000	1.6
Postsecondary teachers—agriculture	8,000	<500	4.9	S	S	<500	2.0	<500	4.5	6,000	77.0	S	S	S	S
Postsecondary teachers—biological sciences	59,000	6,000	10.1	S	S	2,000	4.1	3,000	5.7	46,000	78.2	S	S	1,000	1.8
Postsecondary teachers—other natural sciences	3,000	S	S	S	S	S	S	S	S	2,000	92.8	S	S	S	S
Physical and related scientists	322,000	43,000	13.4	1,000	0.3	9,000	2.7	14,000	4.5	247,000	76.8	1,000	0.3	6,000	2.0
Chemists, except biochemists	129,000	26,000	20.1	<500	0.4	5,000	3.9	7,000	5.3	87,000	67.7	1,000	0.6	3,000	2.1
Earth scientists, geologists, and oceanographers	78,000	5,000	5.9	<500	0.5	1,000	1.0	3,000	4.4	67,000	85.9	S	S	2,000	2.3
Atmospheric and space scientists	15,000	1,000	8.9	S	S	<500	2.1	1,000	4.4	12,000	82.7	S	S	<500	1.7
Geologists, including earth scientists	59,000	3,000	4.8	<500	0.6	<500	0.7	3,000	4.5	52,000	86.8	S	S	1,000	2.5
Oceanographers	4,000	<500	11.9	S	S	S	S	<500	2.8	3,000	84.4	S	S	S	S
Physicists and astronomers	27,000	5,000	18.6	S	S	1,000	2.5	1,000	2.8	20,000	74.7	S	S	<500	1.2
Astronomers	3,000	1,000	20.8	S	S	S	S	<500	3.5	2,000	73.7	S	S	S	S

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(Percent)

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Physicists	25,000	5,000	18.4	S	S	1,000	2.7	1,000	2.7	18,000	74.8	S	S	<500	1.1
Other physical scientists	35,000	2,000	6.2	S	S	1,000	3.6	2,000	4.4	29,000	84.1	S	S	<500	0.9
Postsecondary teachers—physical and related sciences	54,000	5,000	10.1	S	S	1,000	1.9	2,000	3.7	44,000	81.8	S	S	1,000	2.4
Postsecondary teachers—chemistry	24,000	3,000	12.4	S	S	1,000	3.0	1,000	3.1	19,000	78.2	S	S	1,000	3.2
Postsecondary teachers—earth, environmental, and marine sciences	15,000	1,000	4.8	S	S	<500	0.4	1,000	5.2	13,000	87.4	S	S	<500	2.1
Postsecondary teachers—physics	15,000	2,000	11.7	S	S	<500	1.7	<500	3.2	12,000	81.9	S	S	<500	1.4
Social and related scientists	502,000	32,000	6.3	3,000	0.7	23,000	4.5	26,000	5.2	407,000	80.9	2,000	0.4	10,000	1.9
Economists	29,000	3,000	11.1	S	S	2,000	5.8	1,000	3.5	22,000	74.7	S	S	1,000	2.7
Political scientists	17,000	1,000	5.2	S	S	<500	2.7	1,000	3.8	15,000	86.0	S	S	S	S
Psychologists, including clinical	185,000	7,000	3.7	1,000	0.5	8,000	4.3	12,000	6.5	154,000	83.1	1,000	0.5	3,000	1.5
Sociologists and anthropologists	21,000	1,000	2.9	S	S	1,000	5.8	2,000	10.0	16,000	77.5	S	S	<500	2.2
Anthropologists	11,000	S	S	S	S	<500	2.7	1,000	12.7	9,000	79.6	S	S	<500	1.6
Sociologists	10,000	1,000	5.7	S	S	1,000	9.4	1,000	6.8	7,000	75.2	S	S	<500	2.9
Other social scientists	134,000	12,000	8.8	S	S	5,000	4.1	5,000	4.0	109,000	81.3	S	S	2,000	1.2
Postsecondary teachers—social and related sciences	116,000	8,000	7.2	1,000	1.1	6,000	5.2	5,000	4.4	91,000	78.4	<500	0.4	4,000	3.3
Postsecondary teachers—economics	18,000	3,000	18.0	S	S	1,000	4.0	1,000	3.6	13,000	73.6	S	S	S	S
Postsecondary teachers—political science	15,000	1,000	5.1	S	S	1,000	7.5	1,000	5.9	12,000	80.3	S	S	<500	0.9
Postsecondary teachers—psychology	33,000	1,000	2.8	S	S	2,000	5.2	1,000	4.0	28,000	83.9	S	S	1,000	4.0
Postsecondary teachers—sociology	18,000	1,000	7.8	S	S	1,000	5.9	1,000	3.0	13,000	73.0	S	S	1,000	8.0
Postsecondary teachers—other social sciences	33,000	2,000	6.5	1,000	3.3	1,000	4.4	2,000	5.5	25,000	77.6	S	S	1,000	2.6
Engineers	1,582,000	247,000	15.6	4,000	0.2	49,000	3.1	88,000	5.6	1,161,000	73.4	9,000	0.6	26,000	1.6
Aerospace, aeronautical, or astronautical engineers	100,000	10,000	9.9	1,000	0.6	3,000	2.6	7,000	6.6	77,000	76.7	1,000	1.2	2,000	2.4
Agricultural engineers	77,000	13,000	16.9	<500	0.4	2,000	2.9	4,000	4.6	56,000	72.2	S	S	2,000	2.8
Bioengineering and biomedical engineers	258,000	28,000	10.9	1,000	0.2	8,000	3.2	19,000	7.3	194,000	75.5	2,000	0.7	6,000	2.2
Chemical engineers	399,000	101,000	25.2	1,000	0.1	13,000	3.4	21,000	5.3	253,000	63.6	3,000	0.7	6,000	1.6
Civil, architectural, or sanitary engineers	53,000	21,000	40.2	S	S	2,000	2.9	1,000	2.5	28,000	52.6	S	S	1,000	1.7
Electrical or computer hardware engineers	346,000	79,000	22.9	1,000	0.2	12,000	3.4	20,000	5.8	226,000	65.3	3,000	0.8	5,000	1.6
Computer engineers—hardware	93,000	14,000	14.7	S	S	3,000	3.7	9,000	10.1	64,000	68.8	S	S	1,000	1.2
Electrical and electronics engineers	300,000	36,000	11.9	1,000	0.3	8,000	2.7	12,000	4.0	239,000	79.6	1,000	0.2	4,000	1.4
Environmental engineers	7,000	1,000	9.0	S	S	S	S	S	S	5,000	66.6	S	S	S	S
Industrial engineers	28,000	8,000	28.0	S	S	1,000	1.9	1,000	3.2	18,000	64.5	S	S	1,000	2.4
Marine engineers and naval architects	86,000	7,000	8.1	S	S	4,000	4.6	3,000	3.5	71,000	82.7	S	S	1,000	0.7
Materials and metallurgical engineers	12,000	1,000	7.2	S	S	S	S	S	S	11,000	88.5	S	S	S	S
Mechanical engineers	46,000	8,000	18.1	S	S	1,000	2.0	1,000	2.3	35,000	76.2	S	S	1,000	1.2
Mining and geological engineers	7,000	<500	5.2	S	S	S	S	1,000	12.1	6,000	81.4	S	S	S	S
Nuclear engineers	17,000	1,000	7.5	S	S	1,000	5.0	1,000	3.4	14,000	82.7	S	S	S	S
Petroleum engineers	19,000	1,000	5.9	S	S	<500	1.1	2,000	9.2	16,000	81.8	S	S	S	S

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S&E workers, by race/ethnicity and occupation: 2008

(Percent)

Occupation	Total	Asian		American Indian/Alaska Native		Black		Hispanic		White		Native Hawaiian/Other Pacific Islander		Two or more races	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Sales engineers	49,000	4,000	9.0	S	S	<500	0.8	2,000	4.0	42,000	85.0	S	S	1,000	1.1
Other engineers	48,000	6,000	13.1	S	S	2,000	3.5	3,000	5.8	37,000	76.0	S	S	<500	0.6
Postsecondary teachers—engineering	35,000	7,000	21.1	S	S	2,000	6.1	2,000	4.4	23,000	67.0	S	S	<500	1.2

S = suppressed for reasons of confidentiality and/or reliability

NOTES: Detail may not add to total because of rounding. Numbers rounded to the nearest 1,000. Percentages based on unrounded numbers.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT) (2008), <http://sestat.nsf.gov>.*Science and Engineering Indicators 2012*